Insugural Gry Japa Mant 2 1829 Hamoptysis The Legren of Doctor of Medicine University of Pennsylvania Joseph & Cox of Virginia January 5th 1829

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Before entering on the subject under consideration, it is necessary to make a few remarks on the pulmonary apparatus and its living membrane! This apparatus performs three grand functions, the first, is the resation of the blood, the second, is pulmonary exhalation, the third, is the production of sound, which, in man, being tanously modefied by sulellet, found speech, Junging, et celus. From the complex functions of this apparatus, we must naturally suppose, that it is more liable to disease than most organs, especially those that perfoun but one functions of which we have a good exemplefication in machinery, the more complicated, the greater is The habitety to be derauged. The pulmonary apparatus, comprising this

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lagua, homehis, and it ramifications, we have interested, by a delicate number of macon the hand of macon manhance.

The membrane is highly required, being compared of blood resides, news, lymphates &c. It profess gent senseleth sid what know, which will make the distinguish it

from other organis.

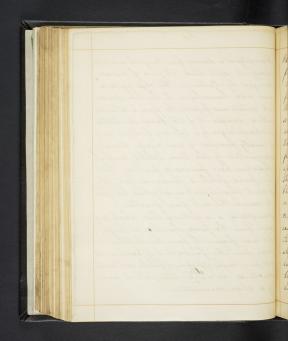
Paruface, who has curriched the people with me elobrate breaker of physiology, spliced to pathology, thinks that the much some braces should be considered

an organ of sense.

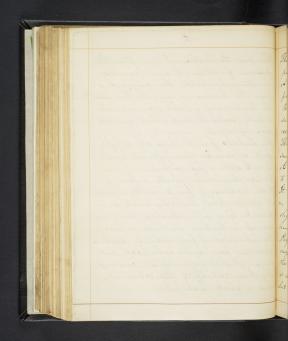
The sympathies of this surface, we munermy, they may be receive, contigues, or

The functions of this surface, being one of the immediates of the summed comming and preforming the effect of stanfilm. 200 her does

It emplysed is derived from the grack words which signify to shirt blood. A genus of disease arranged by Cullew in the clap pyrexix and order humonhagia. It has been divided into active and possive; the former, is attended with a development of intal poness, the latter is characterized by a deficiency of actions, and is usually produced by some organic disease, designated by the term Lebely; we which, physicians have founded a practice that has proved fotal to thousands. But, the present physiological insestigations hid fair to remove this wil from practice. Hamstytysis is a spitting of blood, which may come from the fances, houckie, or lungs; but most prequently from the latter. When, from the fances, it is by hawhup, with out pain, enigh, sportfine, or febrile excitement, sometimes, we are to distinguish its some ly a close examination.

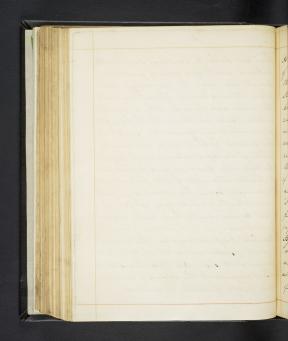


When from the tracker, it is often The precursor of phthesis. It is not very easy to distinguish whether the hemonlages is the tracked is of a darker colour, and not so frothy, besides, The constitutional squit tous The Livekarges from the lungs is of a light flored on remillion colony, potty, and brought up with more or less coughing. The symptoms which precede a flow of blood, are a sense of fulness, weight, highlack or oppression about the elect, which is increased by a full inspiration, down un easingly in breathing, Sometimes we have the phenomena of fever dwelched, such as shirings, frain in the back, head, and lains, blushed face, lastitude, costwereld, dry shim, coldness of the extremities, and a quick hard pulse.

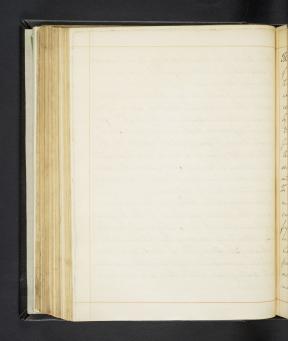


These are liable to variations; sometimes the pulse is small and searcely perceptible. A short line before the himonhayy takes place, there is more or les initation about The fances and largue, with a peculiso sattish teste in the mouth. It prequently reems without any premonetory symptoms. The quantity of blood varies very much. Sometimes the expectnation is morely tanged, at others, the discharge is so profuse as to theaten the life of the patient. It commonly because for several days togethe w, intumitting and being excited by slight causes; even talking will of ten Professor Chapman remarks, that a great majnity of cases occurs at night, when the patient is in bed. This observation is not confined to this species of humanhagy

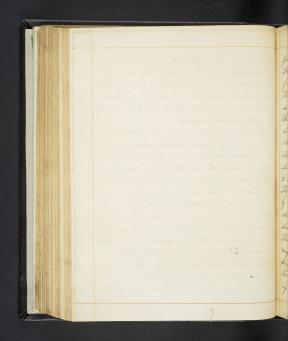
but is equally applicable to epistaxis.



As thinks it may be owing to an increase of sensibility, we the horizontal position with the less drawn up. Reasoning from analogy, there can be no doubt the hougantal position alone, is The cause of the recurrence in the night, for we are inflamed limb, or when we wish to arrest himourhage, we must elevate it to retard The flow of intereal, and to exceletate The return of venous blood, From the colour of the blood in hamofityou, it is generally admitted to be arrenal. The connection between himorrhage from the living membrane of the lungs, and inflammation of it, is almost inseparable. By attentively observing the phenomena which precede a flow of blood, and those which accompany inflammation; we cannot distinguish, until there is a discharge if blood.



There is, in hamptysis a considerable degree of initation if not inflammation; and if the discharge of blood did not take place, we should have in a majority of eases, very active inflammation, if not exceeded by appropriate measures. Vuy often, if not always, we have The Thenomena of fever; which, according to the present doctine in the physiological schools, must be preceded by, or accompanied with local writation is inflammation. To illustrate this point more fully, we will allude to dysentery, which is generally conceded to be if an inflammating nature hequently, if not always the stools consist enticly of blood, or mucho partially elaborated. Causes: They may be divided into predis hosing and exciting, which, will in some measure quide we in our treatment; and mable us to form some idea about the



probable termination of the disease. The predisposing causes may be viewed under four heads. The first, is plethona: but This is not so often the cause as was supposed by the old writer. The second predisprong cause, is the scropulous deathers, in that habt which is marked among The preuliarities, by a remarkable delicacy of structure, light and then hair, soft smooth shin, a law file and great melity of frame; to These may be added the sangume temperament. The third prediaposing cause, is characterized ly a particular conformation; as prominent shaulders, narrow ahest, long nech, and a stender forms The maleonformation of the chest acts were very obviously, by preventing, or not allowing Sufficient space, for The free expansion of The lange. Persons, who have suffered in early life from richeto to such an extent as to



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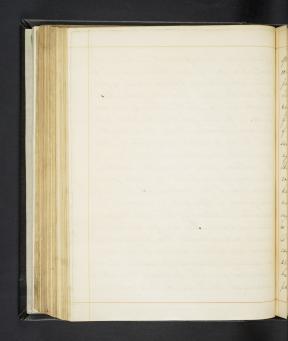
affect the ribs or spine, are very lable, often The age of publity, to hamsplysis. The fourth cause, giving a predisposition, is The parend of life. It ravely occurs in children under 12 years of age, and is not frequent after the age of 35; of the two, it recurs often after the latter, than before the former. It chiefly prevails between the ages of 15 and 25. Sathologists have attempted in several ways, to explain this circumstance; it is said by same, to depend whom the growth of the Thorax continuing after other parts of the body have been fully wowled; which is manifested by the mercased with which the chest requires at That Lune:

It is more reasonable to suppose, that the extract, has a tending to present, nather than predictive to hemore lagger being the ranson chest, which has been allused to.

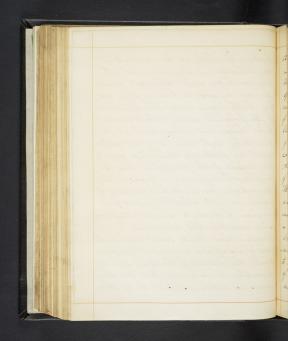


Doctor Callan has imputed it in part, at least, to a want of due belance between the sortee and pulmonary systems, which is fett most at this time; when the former has arrived at its atmost extension and resis tance, Of these positions, the latter is far the more plausible; though, it is thought not to be a correct explanation of This To whatever cause it may be averibed, There can be no doubt as to the general correctuels of the portion, that this partie Las period if life, gives a remarkable pre disposition to hemourhapy from the lungs, Execting Causes. They may be divided into direct, and indirect; The Livet occiting cause are welent exertion of the body, 20 ranning, jamping, or westing; sudden

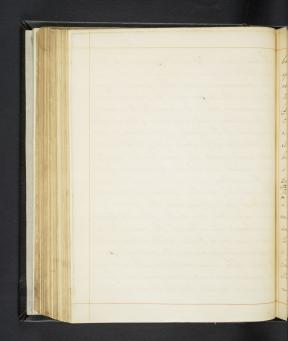
alarm has frequently produced it; uncommon were ise if the lungs, we loud and long



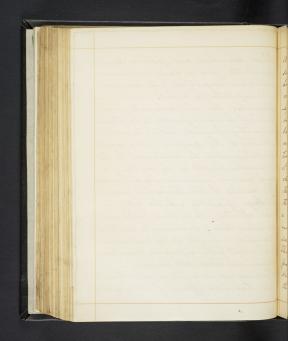
speaking, of which we have a striking excuplification in clusymon; Those who play much on wind untruments, persons who are engaged in blowing glass, are very liable being under the influence of this proceed causes, violent exertion of the lungs and extreme heat at the same time; heat alone is a very active agent in producing hemorrhage generally The pressure of the atmosphere has a considerable influence in producing this hemorhage, for a striking instance of which we will allade to pusous pape ing from a sende, to a rare atmosphere, as in assending lofty mountains. Doctor Mead relater sweet remarkable cases of hamophysis occurring in Edinburgh about the eclipse of the sun; from the barameter, it was found, that the almost phase was lighter at that time, than



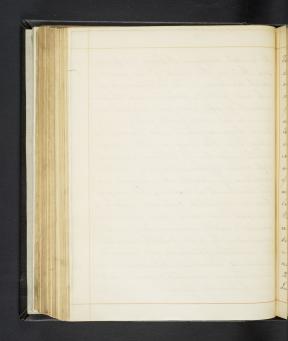
it had ever before been humen to be This hemourhage occurs most frequently in spring on the commencement of summer, which concumstance must be viving to the increase of temperature, and rarefaction of the atmosphase Clougation of The world, is dometimes a cause of homotyses, of which a very ellustrative case came under my observation in august 1827; which was relieved by removing a portion of the wala. The indirect execting causes are various; such as full living, and the few use of wine and the stundant; when the stomach is walraded it interrupts the exculation of blood in some degree. Alternations of at. morpherie temperature, the sudden exposure to cold after being werkester; The suppression of some accustomed uncuation, as the mende is a very futile some of it;



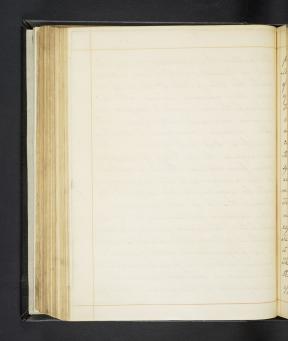
liheuse hemorrhoids and epistaces, drying up of old fours in drains, exceptive vene neal devices ungratified, and sometimes, The amputation of a limb. Diagnosis: The only disease with which it is aft to be confounded, is hamatameric a vomiting of blood; but by a careful. attention to the symptoms it may generally be distinguished. In home tomesis the love is usually brought up by counting of a dark grunous appearance, frequently mixed The contents of the Stomach, is queally in larger quantities, and the system is more affected; the pulse is feeble, and Sometimes, There is prostration In himsphysis The blood is brought up by coughing, it is of a light frothy appearance, cumilain colour, and mixed with mucous. Troquesis; as far as it is ideopothic and the mere effection of blood is consumed



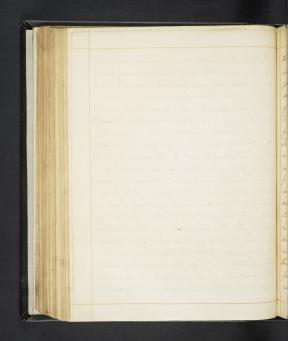
it is not dangerous. Professor Chapman says that in the whole of his practice, which we know to be extensive, he lost ruly one patient. If whenden had the man. agement of fifty cases, and of which name ber only me case proved fatal. Su a large majority of cases, however hem whagy from the lungs is but a dymp tomate effection of phthese pulmenalis. Post morten appearances, according to the observations of Lacuee, who is emment in This department of medicine, The lange of Those he inspected contained patches of a reddow know colony, frim granular when mersed, exactly encumscribed, and The indurated portions do not resemble preumones indurations; but seem to be blood strongly conquested and dried with the pulmonary topene.



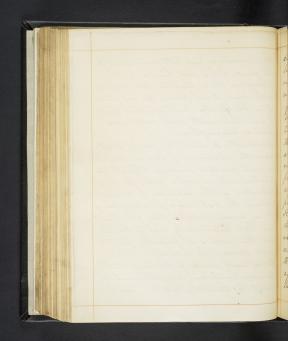
The portions, this industrix, yielded when cut no humesty, unless juessed in susped, while the other portion of the lange were more than indinarily imbred with a yellow, frothy serim, which escaped when meisions were made into them. The mucous membrane of the lung, was if a deep red colour. As regards the pathology of hamoletypes, when from violence, there is a rupture of the vessel, and the humonhage will be seconding to the extent of the lesion; this is of zare recurrence. When recurring spentaneously it is an wholston; The mucow membrane is abun doutty supplied with exhalants which, in a physiological state, pour out mucaus, but in a mobil condition the blood is exhaled unchanged. In conformity to the division of homestysis,



papire hemonlogy next requires our at. . tention; but the most that ocan be said of it has been authorpated in the hosts ey of actue hournhagy. The flow usually occurs without much coughing, and is often accompanied and with extensive disease of the lung; The countenance is pole and emaciated, al-- though there appears to be debitely of the system generally, There is an except action in the lungs. This species of hemruhage is nearly, if not always, an vakalahan. Treatment of active homorhage, is divided into tuo hinds. Tout, that which is no cefry to the suppression of the houmhage Second, that which is necessary to present to recurence, after it has been anested. The latter has been too much neglected; The anxiety of the patient, is too often appeared with the mue suppression of



the hemorkage, and will soon return to his former habito, and bring we another paracyseur. He as physicians, should abways make humen to our patients the importance if a proplylactic bestwent, and state to him the result which would arise from a noncompliance. Treatment. To check the flow of blood, when the phenomena of Lever are duclosed as great precoded uncosines, difficult res pleation with an active pulse, the chief indication is the reduction of reterial action; the best means for accomplishing it is renesection. This plan of heatment has been questioned by high authorities, but there error is so palpable that it needs searcely be noticed. In extensive wounds of the lungs with profuse hemorlage, Surgeons immediately result to bloodletting with the most -



decided benefit. The modus operande of blood letting, is shious; fust so a reculsive; see endly, by removing a portion of the ein culating maps, a part of which must come from the lungs and them appendages. To produce thise effects the quantity to be taken, must be regulated by the state of the patient, we should always bleed from a large orifice in prefuence to a suist out, for no can produce a decided in prefien without the patient suffering domuch from debitety, which is always a point of the first importance. It is very common for writers to specify the quantity of blood to be taken, that which there is not a quater absurdely in medicine: if all of our patients were of The same constitution, temperament, habite, age to we might with propriety, nder tow or fifteen owners of blook to be taken;



but we cannot find any the patient whose constitutione, hatis, luntuaments de me ex actly alike. It is this discrimination which raises an profession, in a measure, from the fetters of impinicism, to one of a more exalted station; that of a science. The extent to which bloodletting may be wifed. I can only say that more langer results from the timed use of the laweet, than from to being carried too fac. There is a very interesting case record ed in the seems solume of Profession Coxed Medical Museum a communica tion from a elegyman to the Late Professor Rusk, stating his own case and the extent of blood tetting long thirty two times in ten days, with the loss of tus gallow of blood; after which, he recor ered his health entucly, and did not suffer from another attack



Small and repeated bleedings have been recommended, but the practice is not only ment, but highly punccious, producing detally, without controlling the flow of blood. Topical bloodletting may be requeste after general, either cups or leeches may be used, if These the former is the best, bing a more powerfull resulsive. Blisters may be necessary after the reduction of arteral action, and are best suited to Those eases attended with cough, and streeture, a tightness about The chest. Commen Latt was highly spoken of the late Profesa Rush; its modus operandi is not very intelligible; it appears to be much suited as an enema in cases attended with constipated bowels. Cool drinks and cool are stand next



next in importance to blooletting, The drinks may consist of ice asta, lone made, vinegar and water Se. Little will no heatment wail, of the potent is not nept in a cool and well contilated. room; company should be excluded, way Thing that has a Tendency to excite the entered system must be removed; he should be placed in bed with his shoulders ele. cated, and his extremetics extended; the importance of the latter, was first noticed by Profesor Physich. Cold applications to The surface, as wrapping the patient in wet blankets, have been recommended, it is a very dangerous

been recommended, it is a very daugined practice, and should be availed, it dimin what capillary as how a proble to blank to strong how a grothe tendency to make appointing in influences of the length



Digitalis has been proposed as a substitute for the lancet, but it will in no manner suffice for that important egent; The case to which it is most applicable; is a small quick pulse, and great mobility, accompanied with a hand dry cough; under these circumstances little benefit will result from to use, if the stomack is not in a physiological condition; a point too much neglected by those who have bestowed such high excommums in This article. Sometimes kemophysis may be owing to newnis unitation, then the judicious whilehow of opium or some of its preparations, or prufsic reid; the latter is recommended by -Doctor Assach of Newyork; it is a pour expell sexative, and well suited to cases attended with dry and convulsive cough. Emetics have been used by Refelen Chopman

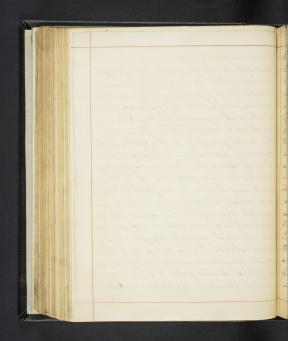
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with the most secreted benefit; they are active means, and require discrementation in them was, they appear to be including the strength when the structure is in a posterojecal state. By not attending to this they may produce effects which are tenfold more familiable than the disease for which - they are administrated the chimic cases, when the struck is in a prefectly named state, they may be given to produce a readsime.

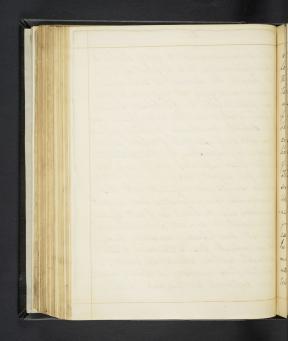
Refriguents have been long used in all lands of moderate actional action of the diagnet, the nechole of persons to act as a session, and is actively when the phenomena of few no suelfeed them it is laught on by a suppression.

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of some waenation, our remedies must be directed to it: for lettle will be at truck untill that is relieved. which occurs when the dystems in a state of along. Here general bleeding and was wents are inadmissable. The indied tion is to give love to the system, at the Tune we are endeavoing to arrest the flow of blood. The best means for Long which, are the judicious use of athem gents and Touces. The sulphate of Lucine, and elixu between, are wittled to the greatest share if our confidence. The preparations of war may be used sometimes with the most deceded benefit. depreal bloodletting is necessary to relieve cough, oppression, and dyspuca; if thesymptoms do not yield to it, a large bluter should be applied now the chiel.



It is recommended to apply blisters to The extremeters; but a great object is to locate the disease in some organ on tipue, and apply our remedies as near as practicable to the diseased organs or tipue; blistens on the extremeters, in cases if detily, sometimes, produce gargient, two striking sommalis of which came under my observation in the Philadelphia about house infirmary me in July, the other in august 13218. There should be conjoined with these medicines, an uniquating diet, moduste excesse, and the liberal use of matt liquors. Treatment to present a recurrence, of ta it has sheeted mested. Every thing which has a tendency to weeter artereal action, should be avoided, particularly excepses, as wolcut mental, and corporeal exections, wine and -



alcoholic liquors. The bowels should le hefit open by will purgetive; of these The salue should be prefered; if topid, The mercurial purgatives, as calonel, and the blue fell, should be quew, if not contraudicated. The recasional use of nitrate of potash; conjuned with moduate exercise anhorseback on darling, has been productive of the most decided benefit. The diet should be of the mildest hind, such as the farinacious articles. The drinks should be corly and acid. · ulsted; the mineral waters me very good, harticularly those unfrequested with carbonie acid gas. In concluding this essay, it is seen, that, I have omitted the medicines called astrugents; and not without due reflection; for it is not at all intelligh how such medicines can act in the

lung, when applied to the mucus surface of the stanger. These medicines were first employed from analogy of action on other parts to which they were applied, and routine of practice has heft them popular resources until the present time deat in this enlightened spock of medicine we should not punit custom to overcome sound reason my without which our profession would be a falice formed of the weakest materials. Of this elass of medicines, the Sugar of lead has held the highest rank, and not without Some merit. His modes operandi appears to be thions. In Small doses, a sedatur effect is produced: in Largo, wither vomits or purges_ and thus proved buneficial as a resulsive. Admitting three runchies could act as astrin justo, would it not be hazardow to use these in action hemon hagy verging to inflamation? we might induce pulmmary appoplian or pure